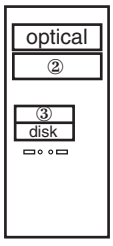
ThinkCentre® M91p Tower (7052) - TopSeller

Personal Systems Reference (PSREF)

Type-model	Slot x bay	Processor	Memory[8]	SATA disk GB rpm	2nd Disk Bay	SATA optical	Graphics	Chassis intr switch	ENERGY STAR 5.0	Intel vPro	Global Educ	Win7 preload
7052-A7U	4x4	Core i5-2400	4GBx1 1333MHz	500G 7200	None	DVD±RW	Intel HD	None	ES50	vPro	N N	Pro 64
7052-A8U	4x4	Core i7-2600	4GBx1 1333MHz	500G 7200	None	DVD±RW	HD 5450	None	ES50	vPro	N N	Pro 64

- *Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology*
- *These small and medium business (SMB) models are part of the US TopSeller™ Program*
- *These models have a 3-year limited warranty*
- *These systems are Microsoft Office 2010 Product Key Ready (O10PKR)*

Positioning	*Ultimate security, stability, and manageability for the enterprise*
Processor	**Intel® Core™ i5-2400 Processor** (**4 cores / 4 threads**, 3.1GHz, 6MB cache), Turbo Boost 2.0 (3.4GHz), integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology **Intel Core i7-2600 Processor** (**4 cores / 8 threads**, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.8GHz), integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation	Processor in LGA1155 socket
Memory	16GB max, **UDIMM**, **PC3-10600 1333MHz DDR3**, four 240-pin DIMM sockets
Graphics	*Some:* **Intel HD Graphics** in processor, uses main memory, HDCP, DirectX® 10.1, one VGA, one DisplayPort™, supports dual independent display; *Maximum resolution:* 2560x1600 (DisplayPort, VGA)@60Hz; *Some:* **AMD Radeon™ HD 5450**, PCI Express® 2.0 x16 adapter, HDCP, DirectX 11, 512MB, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts; *Maximum resolution:* 2560x1600 (DisplayPort, DVI-I)@60Hz; 2048x1536@85Hz (VGA via DVI-to-VGA dongle); works along with Intel HD Graphics 2000 to support four independent monitors
DP dongle	None
Disk	SATA 6.0Gb/s 7200 rpm
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset, RAID 0/1
SATA cables	Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors, one SATA 3.0Gb/s connector, and one eSATA connector on planar
eSATA port	None
Media reader	None
Chipset	**Intel Q67 Express Chipset** Platform Controller Hub [PCH] (PCI Express 2.0 x1, ethernet MAC, PCI, and USB), SMSC® 5627P Super I/O
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports	Six USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
Internal connector	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports)
Audio	High Definition (HD) Audio, Realtek® ALC662 codec
Speaker	Internal speaker for business audio
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®
Intel AMT	Intel Active Management Technology 7.1 (Intel AMT 7.1)
Modem	None
Security chip	STMicroelectronics ST19NP18 Trusted Platform Module (TPM), TCG 1.2-compliant
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo
Mouse	Enhanced Optical USB Mouse, 1000 dpi, black, Lenovo logo
Power supply	280 watts with variable speed fan, autosensing, 85% PSU
Machine	• Business black color; metal case • 6.9" W X 17.4" D X 16.3" H • 175mm W X 442mm D X 414mm H • 24.2 lb (11.0 kg) in maximum configuration • Handle on top front • Power button on top handle • Toolless cover removal • Tilted front I/O for easy access • Toolless disk, optical drive removal • Toolless adapter retention
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk
Slot	Slot 1: half-length, full-height, PCI Express 2.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3
Limited Warranty	**3-years**, **limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available



Preloaded operating system

Genuine Windows® 7 Professional 64

Preloaded applications (only some listed)

- Rescue and Recovery™
- Password Manager
- ThinkVantage® System Update
- ThinkVantage Power Manager
- ThinkVantage Toolbox
- Norton™ Internet Security 2011 (30 days of virus definitions)
- Adobe® Reader®
- Skype™ for Windows
- Microsoft® Office 2010 preloaded; purchase product key to activate
- Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)

Security

- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  -Padlock loop (in rear for opt padlock)
  -Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement

EPEAT™ Gold rating
ENERGY STAR® 5.0-compliant
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to O-M91P sheet;
For ThinkPlus™ service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US models announced March 1, 2011

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